

ABSTRACT OF THE DISCLOSURE

A method of making a composite metal material comprising the steps of providing two outer layers of copper pre-bonded to a pure aluminum such as 1100 series aluminum or to an aluminum alloy such as 3003 aluminum alloy; providing a core layer of alclad aluminum, comprising a composite having a core of aluminum alloy pre-bonded to outer layers of substantially pure 1100 series aluminum; placing the outer layers of copper pre-bonded material on either side of the alclad core layer such that the aluminum layer carried by each copper layer is facing the alclad core layer to form a stacked pack; heating the stacked pack assembled in step (c) to a suitable rolling temperature, such as about 650°F; and hot rolling the stacked pack in a rolling mill at incremental reductions to roll bond the layers to a desired finished thickness. The invention is also directed to the composite material made according to the above-described method and to a cellular telephone transmission tower antenna made from said composite material.